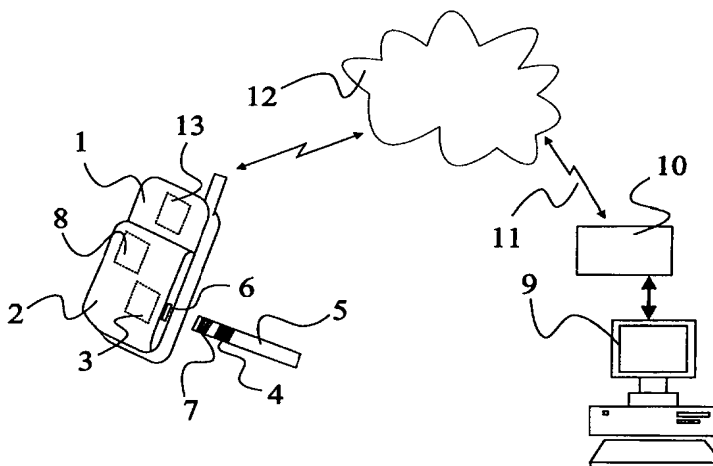




## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification <sup>6</sup> : G01N 33/487, A61B 5/00		A1	(11) International Publication Number: WO 99/22236
			(43) International Publication Date: 6 May 1999 (06.05.99)
(21) International Application Number: PCT/FI98/00740			(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).
(22) International Filing Date: 22 September 1998 (22.09.98)			
(30) Priority Data: 974065 27 October 1997 (27.10.97) FI			
(71) Applicant (for all designated States except US): NOKIA MOBILE PHONES LTD. [FI/FI]; Keilalahdentie 4, FIN-02150 Espoo (FI).			
(72) Inventors; and (75) Inventors/Applicants (for US only): HEINONEN, Pekka [FI/FI]; Hakakuja 2 B 28, FIN-02100 Espoo (FI). OKKONEN, Harri [FI/FI]; Salonkitie 5 as. 3, FIN-02940 Espoo (FI). BERG, Jukka [FI/FI]; Perhotie 1, FIN-90550 Oulu (FI).			
(74) Agent: JOHANSSON, Folke; Nokia Mobile Phones Ltd., P.O. Box 100, FIN-00045 Nokia Group (FI).			Published With international search report.

**(54) Title:** CALIBRATION OF MEASURED PHYSICAL PARAMETERS**(57) Abstract**

A system for measuring the blood glucose level in a sample of a patient's blood. Consumable test strips (5) are provided together with a code (7) which identifies the manufacturing batch of the strip (5). A measurement unit (2) is provided and is coupled to a mobile telephone (1). The measurement unit (2) is arranged to receive a test strip (5) and to determine a colour change in a reagent (4) due to reaction of the reagent (4) with a blood sample. The identification code (7) is read at the same time by the measurement unit (3) and is transmitted by the mobile telephone (1) to a central database (9) provided by the test strip manufacturer. The database (9) contains identification codes (7) together with associated calibration data. Upon receipt of an identification code (7) the remote database (9) transmits the associated calibration data to the mobile telephone (1) which uses the calibration data to calculate a test result from the measured change in colour. The result can be displayed to the patient on a display of the telephone (1).



































